## PATENT COOPERATION TREATY

COTT C. HARRIS SH & RICHARDSON P.C. 150 LA JOLLA VILLAGE DRIVE JAN 11	2002 THE INTERNATIONAL SEARCH REPORT
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	Date of Mailing (day/month/year) 03 JAN 2002
oplicant's or agent's file reference 618-706WO1	FOR FURTHER ACTION See paragraphs 1 and 4 below
ternational application No.	International filing date (day/month/year) 25 September 2001 (25.09.2001)
oplicant ALIFORNIA INSTITUTE OF TECHNOLOGY	
The applicant is hereby notified that the international searce	h report has been established and is transmitted herewith.
When? The time limit for filing such amendments is no international search report: however, for more  Where? Directly to the International Bureau of WIPO	ormally 2 months from the date of transmittal of the PORTIGNANT details, see the notes on the accompany sheet.
34, chemin des Colombettes 1211 Geneva 20. Switzerland Facsimile No.: (41-22) 740.14.	Record: <b>P40193031</b>
The applicant is hereby notified that no international search Article 17(2)(a) to that effect is transmitted herewith.	P40193UD
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Within 19 months from the priority date, a demand for internation wishes to postpone the entry into the national phase until 30 me	onths from the priority date (in some Offices even later).
Within 20 months from the priority date, the applicant must perform the before all designated Offices which have not been elected in the priority date or could not be elected because they are not bound	e demand or in a later election within 19 months from the
ame and mailing address of the ISA/US	Authorized officer
Commissioner of Patents and Trademarks	0.7
Box PCT	Shamim Ahmed Jean Proctor Africa
Washington, D.C. 20231 acsimile No. (703)305-3230	Telephone No. (703) 308-0661

## PATENT COOPERATION TREATY

International application No. PCT/US01/30243  Applicant CALIFORNIA INSTITUTE OF TECHNOLOGY  1. The applicant is hereby notified that the international search report has been established and is transmitted herewith. Filing of amendments and statement under Article 19: The applicant is criticed, if he so wishes, to amend the claims of the international application (see Rule 46): When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the international search report, however, for more details, see the notes on the accompany sheet.  Where? Directly to the International Bureau of WIPO  34. chemical Bureau of WIPO  34. chemical Bureau of WIPO  34. chemical Bureau of WIPO  35. For more detailed instructions, see the notes on the accompanying sheet.  2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.  3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:  the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.  no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.  4. Further action(s): The applicant is reminded of the following:  Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication.  Within 19 months from the priority date, a demand for international policitation will be published by the International application, or of the priving claim, must reach the fareraliumal Bureau as privated in rules 90 file at 190 hts 3, respectively, before the completion of the sechnical preparations for international publication.  Within 19 months from t	From the INTERNATIONAL SEARCHING AUTHORITY	
### THE INTERNATIONAL SEARCH REPORT OR THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION  (PCT Rule 44.1)    Date of Mailing (dov/month/year)	SCOTT C. HARRIS	·
Applicant's or agent's file reference  O6018-706WOI  FOR FURTHER ACTION See paragraphs 1 and 4 belo  International application No.  PORT/USDI/30243  Applicant  CALIFORNIA INSTITUTE OF TECHNOLOGY  International filing date (day/month/year) 25 September 2001 (25.09.2001)  The applicant is berely notified that the international search report has been established and is transmitted herewith.  Filing of amendancets and statement under Article 19 The applicant is mits for filing such amendments in normally 2 months from the date of transmittal of the international search report, however, for more details, see the notes on the accompany sheet.  Wher? The time limit for filing such amendments in normally 2 months from the date of transmittal of the international search report, however, for more details, see the notes on the accompany sheet.  Wher? Directly to the International Internation WPO 34. Adminished Colombetos 21. Switzerland Facsimile No.: (41-22) 740.14.35  For more detailed instructions, see the notes on the accompanying sheet.  2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.  3. With regard to the protest against payment of (an) udditional fee(s) under Rule 40.2, the applicant is notified that:    the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest; the applicant will be notified as soon as a decision is made.  4. Further action(s): The applicant is reminded of the following:  Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wins to avoid or postpoper publication, a notice of withdrawal of the international application or or the priority claim, must reach the International Bureau as provided in rules 90 fish 1 and 90 fish 3 respectively, hefore the completion of the	4350 LA JOLLA VILLAGE DRIVE SUITE 500	THE INTERNATIONAL SEARCH REPORT
Applicant's or agent's file reference  Obolita-706WO1  FOR FURTHER ACTION See paragraphs 1 and 4 belo  International application No. PCT/US01/30243  Applicant CALIFORNIA INSTITUTE OF TECHNOLOGY  1. The applicant is hereby notified that the international search report has been established and is transmitted herewith. Filing of amendments and statement under Article 19: The applicant is entitled, if the so wishes, to amend the claims of the international application (see Rule 46): When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the international search report, however, for more details, see the notes on the accompany sheet.  Where? Directly to the international Bureau of WIPO 34, chemin des Colombettes 1211 Genve 20. Switzerland Facsimile No.: (41-22) 740.14.35  For more detailed instructions, see the notes on the accompanying sheet.  2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.  3. With regard to the protest against payment of (an) additional fee(a) under Rule 40.2, the applicant is notified that:  the protest together with the decision thereon has been transmitted to the International Bureau of Wipo  the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.  no decision has been made yet on the protest; the applicant will be published by the International Bureau.  If the applicant whise to evolve of postopore publication, an active of withdrawal of the international application or of the priority claim, must reach the International Bureau is provided in rules Win's 1 and 90 Mrs 3, respectively. Nettore the completion of the technical preparations for international prefixation while by published by the international application or of the priority date, a demand for international prefixation must be filled if the applicant while to postopone the entry into the national p		(PCT Rule 44.1)
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Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231  Shamim Ahmed  Jean Proctor Paralegal Specialist	before all designated Offices which have not been elected in the	demand or in a later election within 19 months from the
Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231  Shamim Ahmed  Jean Proctor Paralegal Specification  Technology 208 0661	Name and mailing address of the ISA/US	Authorized officer
	Commissioner of Patents and Trademarks Box PCT	
Form PCT/ISA/220 (July 1998)	Facsimile No. (703)305-3230	Telephone No. (703) 308-0661

## PATENT COOPERATION TREATY

## **PCT**

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 06618-706WO1	FOR FURTHER ACTION	see Notification of Transmittal of International Search Re (Form PCT/ISA/220) as well as, where applicable, item 5 below.						
International application No. PCT/US01/30243	International filing date (day/mon 25 September 2001 (25.09.2001)	th/year)	(Earliest) Priority Date (day/month/year) 25 September 2000 (25.09.2000)					
Applicant CALIFORNIA INSTITUTE OF TECHN	OLOGY							
This international search report has bee applicant according to Article 18. A co	ppy is being transmitted to the Inte	earching A	Authority and is transmitted to the Bureau.					
This international search report consists  It is also accompanied	s of a total of sheets.  d by a copy of each prior art docu	iment cited	I in this report.					
Basis of the Report     With regard to the language,     language in which it was filed	the international search was carried, unless otherwise indicated under	d out on the	basis of the international application in the					
Authority (Rule 23.1(b)).	e and/or amino acid sequence disc		e international application furnished to this e international application, the international					
contained in the internation	al application in written form.							
filed together with the inter	national application in computer re	adable for	<b>n.</b>					
furnished subsequently to t	his Authority in written form.							
furnished subsequently to t	his Authority in computer readable	form.						
the statement that the subse- international application as		listing doe	s not go beyond the disclosure in the					
the statement that the inforbeen furnished.	mation recorded in computer reada	ole form is	identical to the written sequence listing has					
2. Certain claims were found	d unsearchable (See Box I).							
3. Unity of invention is lacking. 4. With regard to the title,	ing (See Box II).							
the text is approved as sub-	mitted by the applicant.							
the text has been established	ed by this Authority to read as follo	ws:						
5. With regard to the abstract,								
the text is approved as sub-	mitted by the applicant.							
the text has been established may, within one month fro Authority.	ed, according to Rule 38.2(b), by the the date of mailing of this intern	is Authorit ational sear	y as it appears in Box III. The applicant och report, submit comments to this					
6. The figure of the drawings to be p	ublished with the abstract is Figure	No. <u>1 &amp; 2</u>						
as suggested by the applica	int.		None of the figures					
because the applicant failed	d to suggest a figure.							
because this figure better c	haracterizes the invention.							

Form PCT/ISA/210 (first sheet) (July 1998)

### INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/30243

Box III TEXT OF THE ABSTRACT (Continuation of Item 5 of the first	sheet)	first	the	of	5	Item	of	(Continuation	T	<b>ABSTRACT</b>	FTHE	Ol	TEXT	Ш	Boz
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An anti-stiction structure for cantilever formation technique. In one embodiment, the cantilever (130) includes downwardly extending plurality of legs (131 and 132) which preventing the substrate (100) from sticking to the cantilever. In an another embodiment, the polymer cantilever (215) is prevented from sticking to the substrate (200) by at amortized stick layer (205) on the substrate and during the formation of the cantilever, the stick layer is removed later as a sacrificial layer.

Form PCT/ISA/210 (continuation of first sheet(2)) (July 1998)

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US01/30243

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	SSIFICATION OF SUBJECT MATTER	400											
IPC(7)	: B44C 1/22; B41J 2/04; A61B 19/00; H01L 21	700											
US CL : 216/11,27,58; 134/2; 438/725; 251/3,905; According to International Patent Classification (IPC) or to both national classification and IPC													
		ational classification and IPC											
B. FIELDS SEARCHED													
Minimum doe	cumentation searched (classification system followed	by classification symbols)											
	U.S.: 216/11,27,58,67; 134/2; 438/725; 251/3,905												
0.3 2.	10/11,27,36,67, 134/2, 430/723, 231/3,363	•											
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched													
Documentation scattered other than imminum documentation to the oxion that such documents are more scattered.													
	ta base consulted during the international search (nam	ne of data base and, where practicable, so	earch terms used)										
Please See Co	ontinuation Sheet												
	UMENTS CONSIDERED TO BE RELEVANT	· · · · · · · · · · · · · · · · · · ·											
Category *	Citation of document, with indication, where ap		Relevant to claim No.										
X	US 5,771,902 A (LEE et al) 30 June 1998 (30.06.1	1998), col.4, lines 44-col.5, lines 18	1,6-7, 9,16,22										
	and also see figures 1A-1B.												
Y			26										
•													
	US 6,087,638 A (SILVERBROOK) 11 July 2000 (1	1.07.2000) col 3 lines 46-col 5 lines	1-2,15-17										
X		1.07.2000), coi.5, lines 40-coi.5, lines	1-2,13-17										
	66 and see figures 21-23.		26-28										
Y			20-26										
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A,P	US 6,156,216 A (MANALIS et al) 05 December 20	000 (5.12.2000), see figures 1A-1B.	1-29										
A,P	US 6,249,747 B1 (BINNIG et al) 19 June 2001 (19.	.06.2001), see figure 3.	1-29										
	(2000)												
·													
	documents are listed in the continuation of Box C.	See patent family annex.											
		•											
* S	pecial categories of cited documents:	"T" later document published after the inte date and not in conflict with the applic	mational filing date of priority										
	defining the general state of the art which is not considered to be	principle or theory underlying the inve	ntion										
	lar relevance												
1		"X" document of particular relevance; the	claimed invention cannot be										
"E" earlier ap	plication or patent published on or after the international filing date	considered novel or cannot be consider when the document is taken alone	red to involve an inventive step										
	which may throw doubts on priority claim(s) or which is cited to												
"L" document	the publication date of another citation or other special reason (as	"Y" document of particular relevance; the	claimed invention cannot be										
specified)		considered to involve an inventive ster	when the document is										
ł ·		combined with one or more other such being obvious to a person skilled in the	ant										
"O" document	referring to an oral disclosure, use, exhibition or other means	to mg obvious to a person seriou in the											
"P" document	published prior to the international filing date but later than the	"&" document member of the same patent	family										
	late claimed												
1		Date of mailing of the international sea	rch report										
Date of the a	ictual completion of the international search	Date of mailing of the international sea	F.										
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	nmissioner of Patents and Trademarks PCT	Shamim Ahmed Jean	n Proctor 'y alegal Specyalist										
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	0. (703)305-3230	Telephone No. (703) 308-0661											

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International application No.

PCT/US01/30243

# Continuation of B. FIELDS SEARCHED Item 3: EAST and WEST

(actuator or sensor) same (cantilever or polymer near cantilever)

### NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty and of the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

#### INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no adod to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

### What parts of the international application may be amended?

The claims only.

The description and the drawings may only be amended during international preliminary examination under Chapter IL

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A seplecement sheet must be submitted for each sheet of the claims which, on account of sa amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

### What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confounded with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in "particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.